

ABSTRACT OF THE DISCLOSURE

A playing motion capturing apparatus includes a guitar, a photoreflector, a controller, a piezoelectric pickup, and a personal computer.

5 The photoreflector includes a plurality of full-color LEDs and a plurality of phototransistors, and is disposed in a fingerboard region of the guitar. The photoreflector detects a color of a finger pressing a string, and outputs a position of the finger. The controller turns the full-color LEDs on and off, and outputs light receiving signals of and position information on the

10 phototransistor to the personal computer. The piezoelectric pickup detects vibration of the strings and outputs vibration signals to the personal computer.